



FORM PTO-1449 FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1700.0300001/BJD/SJE	APPLICATION NO. 10/622,064
	APPLICANT BACHMANN et al.	
	FILING DATE July 18, 2003	GROUP 1645

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC3	3,819,706	06/25/1974	Mehta			11/30/1970
	AD3	3,885,046	05/20/1975	Mehta			08/23/1973
	AE3	3,888,866	06/10/1975	Leute et al.			06/01/1973
	AF3	4,123,431	10/31/1978	Soffer et al.			05/06/1977
	AG3	4,197,237	04/08/1980	Leute et al.			02/12/1975
	AH3	4,788,189	11/29/1988	Glazer			02/29/1988
	AI3	4,918,166	04/17/1990	Kingsman et al.			10/26/1987
	AJ3	5,256,409	10/26/1993	Blincko			01/25/1991
	AK3	5,876,727	03/02/1999	Swain et al.			09/30/1996

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO5	WO 92/03163 A1	03/05/1992	WIPO			Yes X No
	AP5	WO 92/21333 A2	12/10/1992	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
MM	AR	130	Abad, A., et al., "Comparison of a Monoclonal Antibody-Based Enzyme-Linked Immunosorbent Assay and Gas Chromatography for the Determination of Nicotine in Cigarette Smoke Condensates," <i>Anal. Chem.</i> 65:3227-3231, American Chemical Society (1993)
	AS	130	Bonese, K.F., et al., "Changes in heroin self-administration by a rhesus monkey after morphine immunisation," <i>Nature</i> 252:708-710, Nature Publishing Group (1974)
	AT	130	Byrnes-Blake, K.A., et al., "Generation of anti-(+)methamphetamine antibodies is not impeded by (+)methamphetamine administration during active immunization of rats," <i>Int. Immunopharmacol.</i> 1:329-338, Elsevier (February 2001)


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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA4	5,939,598	08/17/1999	Kucherlapati et al.			07/30/1992
	AB4	6,232,082 B1	05/15/2001	Ennifar et al.			12/01/1998
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
MM	AL6	EP 0 576 357 B1	12/29/1993	Europe			Yes X No
	AM6	WO 94/28888 A1	12/22/1994	WIPO			Yes No
	AN6	WO 96/02248 A1	02/01/1996	WIPO			Yes No
	AO6	WO 98/14216 A2	04/96/1998	WIPO			Yes No
	AP6	WO 99/17803 A1	04/15/1999	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	131	Carpino, L.A., "1-Hydroxy-7-azabenzotriazole. An Efficient Peptide Coupling Additive," J. Am. Chem. Soc. 115:4397-4398, American Chemical Society (1993)
	AS	131	Carrera, M.R., et al., "Suppression of psychoactive effects of cocaine by active immunization," Nature 378:727-730, Nature Publishing Group (1995)
	AT	131	Carrera, M.R., et al., "Cocaine vaccines: Antibody protection against relapse in a rat model," Proc. Natl. Acad. Sci. USA 97:6202-6206, National Academy Press (2000)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
MM ↓	AL7	WO 99/61054 A1	12/02/1999	WIPO			Yes No
	AM7	WO 00/00462 A1	01/06/2000	WIPO			Yes No X
	AN7	WO 00/32227 A3	06/08/2000	WIPO			Yes No
	AO7	WO 01/12176 A2	02/22/2001	WIPO			Yes No
	AP7	WO 01/12176 A3	02/22/2001	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM ↓	AR	132	Carrera, M.R., et al., "A second-generation vaccine protects against the psychoactive effects of cocaine," <i>Proc. Natl. Acad. Sci. USA</i> 98:1988-1992, National Academy Press (February 2001)
	AS	132	Castaldi, G., et al., "Tartaric Acid, an Efficient Chiral Auxiliary: New Asymmetric Synthesis of 2-Alkyl-2-arylacetic Acids," <i>J. Org. Chem.</i> 52:3018-3027, American Chemical Society (1987)
	AT	132	Castro, A., and Prieto, I., "Nicotine antibody production: comparison of two nicotine conjugates in different animal species," <i>Biochem. Biophys. Res. Commun.</i> 67:583-589, Academic Press (1975)

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1-5-05

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
MM	AL8	WO 01/77158 A1	10/18/2001	WIPO			Yes No
	AM8	WO 01/85208 A3	11/15/2001	WIPO			Yes No
	AN8	WO 01/98333 A2 & A3	12/27/2001	WIPO			Yes No
	AO8	WO 02/14478 A2	02/21/2002	WIPO			Yes No
	AP8	WO 02/056905 A2	07/25/2002	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	133	Castro, A., et al., "Nicotine Antibodies: Comparison of Ligand Specificities of Antibodies Produced against Two Nicotine Conjugates," Eur. J. Biochem. 104:331-340, Blackwell Publishing (1980)
	AS	133	Cohen, C., et al., "SR141716, a central cannabinoid (CB ₁) receptor antagonist, blocks the motivational and dopamine-releasing effects of nicotine in rats," Behav. Pharmacol. 13:451-463, Lippincott Williams & Wilkins (2002)
	AT	133	da Costa, C.L., et al., "Stopping Smoking: A prospective, Randomized, Double-Blind Study Comparing Nortriptyline to Placebo," Chest 122:403-408, The American College of Chest Physicians (August 2002)

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MM ↓	AL9	WO 03/040105 A1	05/15/2003	WIPO			Yes X No
	AM9	EP 0 656 354 B1	06/07/1995	Europe			Yes X No
	AN9	WO 02/058635 A2 & A3	08/01/2002	WIPO			Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM ↓	AR	134	Fox, B.S., et al., "Efficacy of a therapeutic cocaine vaccine in rodent models," Nat. Med. 2:1129-1132, Nature Publishing Group (1996)
	AS	134	Hardin, J.S., et al., "Pharmacodynamics of a Monoclonal Antiphencyclidine Fab with Broad Selectivity for Phencyclidine-Like Drugs," J. Pharmacol. Exp. Ther. 285:1113-1122, The American Society for Pharmacology and Experimental Therapeutics (1998)
	AT	134	Hieda, Y., et al., "Vaccination against nicotine during continued nicotine administration in rats: immunogenicity of the vaccine and effects on nicotine distribution to brain," Int. J. Immunopharmacol. 22:809-819, Elsevier Science Ltd. (2000)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	135	Hieda, Y., et al., "Active Immunization Alters the Plasma Nicotine Concentration in Rats," <i>J. Pharmacol. Exp. Ther.</i> 283:1076-1081, The American Society for Pharmacology and Experimental Therapeutics (1997)				
	AS	135	Hieda, Y., et al., "Immunization of rats reduces nicotine distribution to brain," <i>Psychopharmacology (Berl)</i> 143:150-157, Springer-Verlag (1999)				
	AT	135	Hodge, L.M., et al., "Immunoglobulin A (IgA) Responses and IgE-Associated Inflammation along the Respiratory Tract after Mucosal but Not Systemic Immunization," <i>Infect. Immun.</i> 69:2328-2338, American Society for Microbiology (April 2001)				
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
MM ↓	AR	136	Isomura, S., et al., "An Immunotherapeutic Program for the Treatment of Nicotine Addiction: Hapten Design and Synthesis," <i>J. Org. Chem.</i> 66:4115-4121, American Chemical Society (June 2001)				
	AS	136	Jorenby, D.E., et al., "A controlled trial of sustained-release bupropion, a nicotine patch, or both for smoking cessation," <i>N. Engl. J. Med.</i> 340:685-691, Massachusetts Medical Society (1999)				
	AT	136	Joseph, A.M., et al., "Lack of Efficacy of Transdermal Nicotine in Smoking Cessation," <i>N. Engl. J. Med.</i> 341:1157-1158, Massachusetts Medical Society (1999)				

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	137	Killian, A., et al., "Effects of Passive Immunization Against Morphine on Heroin Self-Administration," <i>Pharmacol. Biochem. Behav.</i> 9:347-352, ANKHO International Inc. (1978)
I	AS	137	Klovins, J., et al., "Nucleotide sequence of a ssRNA phage from <i>Acinetobacter</i> : kinship to coliphages," <i>J. Gen. Virol.</i> 83:1523-1533, Cambridge University Press (June 2002)
I	AT	137	Langone, J.J. & VanVunakis, H., "Radioimmunoassay of Nicotine, Cotinine, and γ -(3-Pyridyl)- γ -oxo-N-methylbutyramide," <i>Methods Enzymol.</i> 84:628-640, Academic Press (1982)

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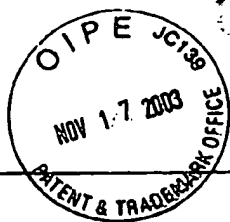
	AR	<u>138</u>	Langone, J.J., et al., "Nicotine and Its Metabolites. Radioimmunoassays for Nicotine and Cotinine," <i>Biochemistry</i> 12:5025-5030, American Chemical Society (1973)
	AS	<u>138</u>	Malin, D.H., et al., "Passive immunization against nicotine prevents nicotine alleviation of nicotine abstinence syndrome," <i>Pharmacol. Biochem. Behav.</i> 68:87-92, Elsevier Science (January 2001)
	AT	<u>138</u>	Matsushita, H., et al., "Conjugate of bovine serum albumin with nicotine," <i>Biochem. Biophys. Res. Commun.</i> 57:1006-1010, Academic Press, Inc. (1974)

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	AM						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM ↓	AR	<u>139</u>	Meijler, M.M., et al., "A New Strategy for Improved Nicotine Vaccines Using Conformationally Constrained Haptens," <i>J. Am. Chem. Soc.</i> 125:7164-7165, American Chemical Society (June 2003)
	AS	<u>139</u>	Musso, D.L., et al., "Synthesis and Evaluation of the Antidepressant Activity of the Enantiomers of Bupropion," <i>Chirality</i> 5:495-500, Wiley-Liss, Inc. (1993)
	AT	<u>139</u>	Noguchi, M., et al., "Conjugate of nicotine and cotinine to bovine serum albumin," <i>Biochem. Biophys. Res. Commun.</i> 83:83-86, Academic Press, Inc. (1978)

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	AN						Yes No
	AO						Yes No
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MM	AR	140	Pentel, P.R., et al., "A Nicotine Conjugate Vaccine Reduces Nicotine Distribution to Brain and Attenuates Its Behavioral and Cardiovascular Effects in Rats," <i>Pharmacol. Biochem. Behav.</i> 65:191-198, Elsevier Science (2000)
	AS	140	Proksch, J.W., et al., "Anti-Phencyclidine Monoclonal Antibodies Provide Long-Term Reductions in Brain Phencyclidine Concentrations during Chronic Phencyclidine Administration in Rats," <i>J. Pharmacol. Exp. Ther.</i> 292:831-837, The American Society for Pharmacology and Experimental Therapeutics (2000)
	AT	140	Simecka, J.W., et al., "Mucosally Induced Immunoglobulin E-Associated Inflammation in the Respiratory tract," <i>Infect. Immun.</i> 68:672-679, American Society for Microbiology (2000)

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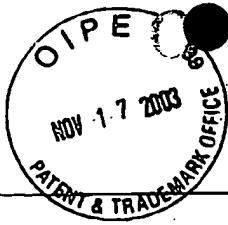
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
MM	AR	141	"Sindbis Expression System," Version E, Invitrogen Corporation, Carlsbad, CA, Catalog No. K750-1 (April 2002)				
I	AS	141	Stoll, E., et al., "Revised Amino Acid Sequence of Q β Coat Protein between Positions 1 and 60," J. Biol. Chem. 252:990-993, The American Society for Biochemistry and Molecular Biology (1977)				
I	AT	141	Yamamoto, S., et al., "A nontoxic mutant of cholera toxin elicits Th2-type responses for enhanced mucosal immunity," Proc. Natl. Acad. Sci. USA 94:5267-5272, National Academy Press (1997)				

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	AR	142	NCBI Entrez, GenBank Report, Accession No. NP_695026, from Inokuchi et al. (July 2003)
	AS	142	Dialog File 351, Accession No. 8799418, Derwent WPI English language abstract for WO 92/03163 (Document A05)
	AT	142	Dialog File 351, Accession No. 9721628, Derwent WPI English language abstract for EP 0 576 357 (Document AL6)

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	143	Dialog File 351, Accession No. 12999043, Derwent WPI English language abstract for WO 00/00462 (Document AM7)
I	AS	143	Dialog File 351, Accession No. 15395298, Derwent WPI English language abstract for WO 03/040105 (Document AL9)
↓	AT	143	Jegerlehner, A., et al., "A molecular assembly system that renders antigens of choice highly repetitive for induction of protective B cell responses," Vaccine 20:3104-3112, Elsevier Science, Ltd. (August 2002)

EXAMINER <i>mslu</i>	DATE CONSIDERED <i>1-5-05</i>
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	



FORM PTO-1449 <u>FIRST SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1700.0300001/BJD/SJE	APPLICATION NO. 10/622,064
	APPLICANT BACHMANN et al.	
	FILING DATE July 18, 2003	GROUP 1645

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM ↓	AR	144	The Biology of Animal Viruses, 2nd ed., Fenner, F., et al., eds., Academic Press, New York, NY, pp. 117-119 (1974)
	AS	144	NCBI Entrez, PubMed Abstract, PMID: 2205968, Diallo, A., et al., "Morbillivirus group: genome organization and proteins," Vet. Microbiol. 23:155-163 (1990)
	AT	144	Dialog File 351, Accession No. 10300677, Derwent WPI English language abstract for EP 0 656 354 B1 (Document AM9)

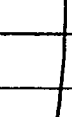
EXAMINER <i>msd</i>	DATE CONSIDERED 1-5-06
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
MM	AA1	4,722,840	02/02/1988	Valenzuela et al.			09/19/1985
	AB1	5,071,651	12/10/1991	Sabara et al.			03/05/1990
	AC1	5,143,726	09/01/1992	Thornton et al.			11/20/1989
	AD1	5,334,394	08/02/1994	Kossovsky et al.			01/04/1993
	AE1	5,374,426	12/20/1994	Sabara et al.			10/30/1989
	AF1	5,580,859	12/03/1996	Felgner et al.			03/18/1994
	AG1	5,698,424	12/16/1997	Mastico et al.			01/03/1995
	AH1	5,739,026	04/14/1998	Garoff et al.			08/13/1992
	AI1	5,766,602	06/16/1998	Xiong et al.			01/19/1995
	AJ1	5,770,380	06/23/1998	Hamilton et al.			09/13/1996
	AK1	5,789,245	08/04/1998	Dubensky, Jr. et al.			10/30/1996

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL1	WO 92/11291 A1	07/09/1992	WIPO			Yes No
	AM1	WO 96/30523 A2	10/03/1996	WIPO			Yes No
	AN1	WO 97/31948 A1	09/04/1997	WIPO			Yes No
	AO1	WO 98/15631 A1	04/16/1998	WIPO			Yes No
	AP1	WO 00/32227 A2	06/08/2000	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM ↓	AR	1	Abraham, J.M., et al., "An invertible element of DNA controls phase variation of type 1 fimbriae of <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 82:5724-5727, National Academy Press (1985)
	AS	1	Abraham, S.N., et al., "Glycerol-Induced Unraveling of the Tight Helical Conformation of <i>Escherichia coli</i> Type 1 Fimbriae," <i>J. Bacteriol.</i> 174:5145-5148, American Society for Microbiology (1992)
	AT	1	Adhin, M.R., et al., "Nucleotide Sequence from the ssRNA Bacteriophage JP34 Resolves the Discrepancy between Serological and Biophysical Classification," <i>Virology</i> 170:238-242, Academic Press, Inc. (1989)

EXAMINER

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
MM	AA2	5,792,462	08/11/1998	Johnston et al.			05/23/1995
	AB2	5,814,482	09/29/1998	Dubensky, Jr. et al.			10/30/1996
	AC2	5,871,747	02/16/1999	Gengoux-Sedlik et al.			04/28/1995
	AD2	5,928,647	07/27/1999	Rock			09/15/1995
	AE2	6,004,763	12/21/1999	Gengoux et al.			05/12/1998
	AF2	6,054,312	04/25/2000	Larocca et al.			08/29/1997
	AG2	6,231,864 B1	05/15/2001	Birkett			02/11/1999
	AH2	6,380,364 B1	04/30/2002	Mueller et al.			10/06/1999
	AI2	2002/0064533 A1	05/30/2002	Murray			06/04/2001
	AJ2	2002/0081295 A1	06/27/2002	Schiller et al.			04/13/2001
	AK2	2003/0157479 A1	08/21/2003	Bachmann et al.			11/07/2002

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
MM	AL2	WO 00/59928 A1	10/12/2000	WIPO			Yes No
	AM2	WO 00/23955 A1	04/27/2000	WIPO			Yes No
	AN2	WO 01/62284 A2	08/30/2001	WIPO			Yes No
	AO2	WO 01/85208 A2	11/15/2001	WIPO			Yes No
	AP2	WO 99/28478 A1	06/10/1999	WIPO			Yes No

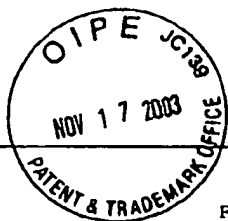
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	2	Aguzzi, A., "Prion diseases, blood and the immune system: concerns and reality," <i>Haematologica</i> 85:3-10, Il Pensiero Scientifico Editore (January 2000)
	AS	2	Ansel, K.M., et al., "In Vivo-activated CD4 T Cells Upregulate CXC Chemokine Receptor 5 and Reprogram Their Response to Lymphoid Chemokines," <i>J. Exp. Med.</i> 190:1123-1134, The Rockefeller University Press (1999)
	AT	2	Ansel, K.M., et al., "A chemokine-driven positive feedback loop organizes lymphoid follicles," <i>Nature</i> 406:309-314, Nature Publishing Group (July 2000)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
MM	AA3	2003/0175711 A1	09/08/2003	Renner et al.			01/18/2002
	AB3	2003/0175290 A1	09/18/2003	Renner et al.			01/18/2002
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MM	AL3	WO 99/57289 A2 & A3	11/11/1999	WIPO			Yes No
	AM3	WO 00/50461 A1	08/31/2000	WIPO			Yes No
	AN3	EP 0 259 149 B1	12/15/1993	Europe			Yes No
	AO3	EP 0 385 610 B1	03/16/1994	Europe			Yes No
	AP3	WO 94/06472 A1	03/31/1994	WIPO			Yes No

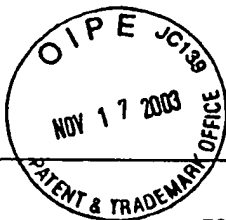
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	3	Antonyamy, M.A., et al., "Evidence for a Role of IL-17 in Organ Allograft Rejection: IL-17 Promotes the Functional Differentiation of Dendritic Cell Progenitors," <i>J. Immunol.</i> 162:577-584, The American Association of Immunologists (1999)
	AS	3	Arenberg, D.A., et al., "The murine CC chemokine, 6C-kine, inhibits tumor growth and angiogenesis in a human lung cancer SCID mouse model," <i>Cancer Immunol. Immunother.</i> 49:587-592, Springer-Verlag (January 2001)
	AT	3	Arnon, R., et al., "A mimotope peptide-based vaccine against <i>Schistosoma mansoni</i> : synthesis and characterization," <i>Immunology</i> 101:555-562, Blackwell Science, Ltd. (December 2000)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
MM ↓	AL4	EP 0 465 081 B1	04/20/1994	Europe			Yes No
	AM4	EP 0 283 505 B1	07/06/1994	Europe			Yes No
	AN4	WO 94/15585 A1	07/21/1994	WIPO			Yes No
	AO4	EP 0 425 082 B1	04/26/1995	Europe			Yes No
	AP4	WO 96/05293 A1	02/22/1996	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM ↓	AR	4	Bachmann, M.F., and Zinkernagel, R.M., "The influence of virus structure on antibody responses and virus serotype formation," <i>Immunol. Today</i> 17:553-558, Elsevier Science, Ltd. (1996)
	AS	4	Bachmann, M.F., and Zinkernagel, R.M., "Neutralizing Antiviral B Cell Responses," <i>Annu. Rev. Immunol.</i> 15:235-270, Annual Reviews, Inc. (1997)
	AT	4	Bachmann, M.F., et al., "TRANCE, a Tumor Necrosis Factor Family Member Critical for CD40 Ligand-independent T Helper Cell Activation," <i>J. Exp. Med.</i> 189:1025-1031, The Rockefeller University Press (1999)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
MM	AL5	WO 99/07839 A2 & A3	02/18/1999	WIPO			Yes No
↓	AM5	WO 99/40934 A1	08/19/1999	WIPO			Yes No
	AN5	WO 99/67293 A1	12/29/1999	WIPO			Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	5	Banerjee, R.R., and Lazar, M.A., "Dimerization of Resistin and Resistin-like Molecules Is Determined by a Single Cysteine," <i>J. Biol. Chem.</i> 276:25970-25973, The American Society for Biochemistry and Molecular Biology, Inc. (July 2001)
↓	AS	5	Bard, F. et al., "Peripherally administered antibodies against amyloid β -peptide enter the central nervous system and reduce pathology in a mouse model of Alzheimer disease," <i>Nat. Med.</i> 6:916-919, Nature Publishing Company (August 2000)
↓	AT	5	Bass, S., and Yang, M., "Expressing cloned genes in <i>Escherichia coli</i> ," in <i>Protein Function: A Practical Approach</i> , 2nd ed., Creighton, T.E., ed., IRL Press, Oxford, Great Britain, pp. 29-55 (1997)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	6	Bernhagen, J., et al., "Purification, Bioactivity, and Secondary Structure Analysis of Mouse and Human Macrophage Migration Inhibitory Factor (MIF)," <i>Biochemistry</i> 33:14144-14155, American Chemical Society (1994)
	AS	6	Biaselle, C.J., and Millar, D.B., "Studies on Triton X-100 detergent micelles," <i>Biophys. Chem.</i> 3:355-361, North-Holland Publishing Company (1975)
	AT	6	Bleul, C.C., et al., "The lymphocyte chemoattractant SDF-1 is a ligand for LESTR/fusin and blocks HIV-1 entry," <i>Nature</i> 382:829-833, Nature Publishing Group (1996)

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	2	Blomfield, I.C., et al., "Type 1 Fimbriation and fimE Mutants of Escherichia coli K-12," J. Bacteriol. 173:5298-5307, American Society for Microbiology (1991)
	AS	2	Blomfield, I.C., et al., "Integration host factor stimulates both FimB- and FimE-mediated site-specific DNA inversion that controls phase variation of type 1 fimbriae expression in Escherichia coli," Mol. Microbiol. 23:705-717, Blackwell Science, Ltd. (1997)
	AT	2	Boder, E.T., and Wittrup, K.D., "Yeast Surface Display for Directed Evolution of Protein Expression, Affinity, and Stability," Methods Enzymol. 328:430-444, Academic Press (October 2000)

EXAMINER mslu	DATE CONSIDERED 1-5-06
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	8	Bonci, A., et al., "Relatedness and Phylogeny Within the Family of Periplasmic Chaperones Involved in the Assembly of Pili or Capsule-Like Structures of Gram-Negative Bacteria," J. Mol. Evol. 44:299-309, Springer-Verlag (1997)
	AS	8	Brandner, S., et al., "A crucial role for B cells in neuroinvasive scrapie," Transfus. Clin. Biol. 6:17-23, Elsevier, Paris (1999)
	AT	8	Brinton, Jr., C.C., "The structure, function, synthesis and genetic control of bacterial pili and a molecular model for DNA and RNA transport in gram negative bacteria," Trans. N.Y. Acad. Sci. 27:1003-1054, New York Academy of Sciences (1965)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	2	Brown, K.D., et al., "A family of small inducible proteins secreted by leukocytes are members of a new superfamily that includes leukocyte and fibroblast-derived inflammatory agents, growth factors, and indicators of various activation processes," J. Immunol. 142:679-687, The American Association of Immunologists (1989)
	AS	2	Brown, P.M., et al., "A Single-Step Purification of Biologically Active Recombinant Human Interleukin-5 from a Baculovirus Expression System," Protein Expr. Purif. 6:63-71, Academic Press, Inc. (1995)
	AT	2	Brown, K.L., et al., "Scrapie replication in lymphoid tissues depends on prion protein-expressing follicular dendritic cells," Nat. Med. 11:1308-1312, Nature Publishing Company (1999)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	10	Bullitt, E., et al., "Development of pilus organelle subassemblies in vitro depends on chaperone uncapping of a beta zipper," <i>Proc. Natl. Acad. Sci. USA</i> 93:12890-12895, National Academy Press (1996)
	AS	10	Bullitt, E., and Makowski, L., "Bacterial Adhesion Pili Are Heterologous Assemblies of Similar Subunits," <i>Biophys. J.</i> 74:623-632, Biophysical Society (1998)
	AT	10	Burger, J.A., et al., "Blood-derived nurse-like cells protect chronic lymphocytic leukemia B cells from spontaneous apoptosis through stromal cell-derived factor-1," <i>Blood</i> 96:2655-2663, The American Society of Hematology (October 2000)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

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	AR	11	Burghoff, R.L., et al., "Utilization of the Mouse Large Intestine To Select an <i>Escherichia coli</i> F-18 DNA Sequence That Enhances Colonizing Ability and Stimulates Synthesis of Type 1 Fimbriae," <i>Infect. Immun.</i> 61:1293-1300, American Society for Microbiology (1993)
	AS	11	Cannon-Carlson S., et al., "Expression, Purification, and Characterization of Recombinant Human Interleukin-13 from NS-O Cells," <i>Protein Expr. Purif.</i> 12:239-248, Academic Press (1998)
	AT	11	Chabaud, M., et al., "Enhancing Effect of IL-17 on IL-1-Induced IL-6 and Leukemia Inhibitory Factor Production by Rheumatoid Arthritis Synovialocytes and Its Regulation by Th2 Cytokines," <i>J. Immunol.</i> 161: 409-414, The American Association of Immunologists (1998)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM ↓	AR	12	Chabaud, M., et al., "Human Interleukin-17. A T Cell-Derived Proinflammatory Cytokine Produced by the Rheumatoid Synovium," Arthritis Rheum. 42:963-970, Wiley-Liss, Inc. (1999)
	AS	12	Chabaud, M., et al., "Contribution of Interleukin 17 to synovium matrix destruction in rheumatoid arthritis," Cytokine 12:1092-1099, Cell Press (July 2000)
	AT	12	Clark, H.F., et al., "Comparative Characterization of a C-Type Virus-Producing Cell Line (VSW) and a Virus-Free Cell Line (VH2) From Vipera russelli," J. Natl. Cancer Inst. 51:645-657, Oxford University Press (1973)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	13	Clark-Lewis, I., et al., "Chemical Synthesis, Purification, and Characterization of Two Inflammatory Proteins, Neutrophil Activating Peptide 1 (Interleukin-8) and Neutrophil Activating Peptide 2," <i>Biochemistry</i> 30:3128-3135, American Chemical Society (1991)
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	AT	13	Cohen, C., and Parry D.A.D., " α -Helical coiled coils-a widespread motif in proteins," <i>Trends Biochem. Sci.</i> 11:245-248, Elsevier Science Publishers B.V. (1986)

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MM	AR	14	Corti, M., et al., "GM1-ganglioside-Triton X-100 mixed micelles: changes of micellar properties studied by laser-light scattering and enzymatic methods," <i>Chem. Phys. Lipids</i> 28:197-214, Elsevier/North-Holland Scientific Publishers, Ltd. (1981)
	AS	14	Coutelier, J.-P., et al., "IgG2a Restriction of murine antibodies elicited by viral infections," <i>J. Exp. Med.</i> 165:64-69, The Rockefeller University Press (1987)
	AT	14	Crump, M.P., et al., "Solution Structure of Eotaxin, a Chemokine That Selectively Recruits Eosinophils in Allergic Inflammation," <i>J. Biol. Chem.</i> 273:22471-22479, The American Society for Biochemistry and Molecular Biology, Inc. (1998)

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MM	AR	15	Davis, N.L., et al., "In Vitro Synthesis of Infectious Venezuelan Equine Encephalitis Virus RNA from a cDNA Clone: Analysis of a Viable Deletion Mutant," <i>Virology</i> 171:189-204, Academic Press (1989)
	AS	15	Daugherty, P.S., et al., "Development of an optimized expression system for the screening of antibody libraries displayed on the <i>Escherichia coli</i> surface," <i>Protein Eng.</i> 12:613-621, Oxford University Press (1999)
	AT	15	Dealwis, C., et al., "Crystal structure of chemically synthesized [N33A] stromal cell-derived factor 1 α , a potent ligand for the HIV-1 "fusin" coreceptor," <i>Proc. Natl. Acad. Sci. USA</i> 95:6941-6946, National Academy Science (June 2001)

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MM	AR	16	Dodson, K.W., et al., "Outer-membrane PapC molecular usher discriminately recognizes periplasmic chaperone-pilus subunit complexes," <i>Proc. Natl. Acad. Sci. USA</i> 90:3670-3674, National Academy Press (1993)
	AS	16	Dudler, J., et al., "Effect of interleukin 17 on proteoglycan degradation in murine knee joints," <i>Ann. Rheum. Dis.</i> 59:529-532, Bmj Publishing Group (July 2000)
	AT	16	Eckhardt, S.G., et al., "Hepatitis B Virus Core Antigen Has Two Nuclear Localization Sequences in the Arginine-Rich Carboxyl Terminus," <i>J. Virol.</i> 65:575-582, American Society for Microbiology (1991)

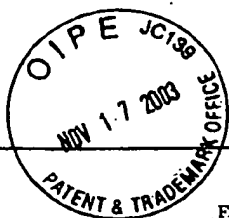
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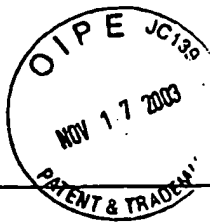
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MM ↓	AR	<u>17</u>	Eisenmesser, E.Z., et al., "Expression, Purification, Refolding, and Characterization of Recombinant Human Interleukin-13: Utilization of Intracellular Processing," <i>Protein Expr. Purif.</i> 20:186-195, Academic Press (November 2000)		
	AS	<u>17</u>	Eisenmesser, E.Z., et al., "Solution Structure of Interleukin-13 and Insights into Receptor Engagement," <i>J. Mol. Biol.</i> 310:231-241, Academic Press (June 2001)		
	AT	<u>17</u>	Eisenstein, B.I., "Phase Variation of Type 1 Fimbriae in <i>Escherichia coli</i> Is Under Transcriptional Control," <i>Science</i> 214:337-339, American Association for the Advancement of Science (1981)		
EXAMINER	mslu			DATE CONSIDERED	1-5-06

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	MM	AR	18	Elisseeva, E.L., et al., "NMR Studies of Active N-terminal Peptides of Stromal Cell-derived Factor-1," J. Biol. Chem. 275:26799-26805, The American Society for Biochemistry and Molecular Biology, Inc. (September 2000)			
		AS	18	Eshdat, Y., et al., "Dissociation and Reassembly of Escherichia coli Type 1 Pili," J. Bacteriol. 148:308-314, American Society for Microbiology (1981)			
		AT	18	Ettinger, R., et al., "A Critical Role for Lymphotoxin- β Receptor in the Development of Diabetes in Nonobese Diabetic Mice," J. Exp. Med. 193:1333-1339, The Rockefeller University Press (June 2001)			
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
MM	AR	19	Fehr, T., et al., "Role of Repetitive Antigen Patterns for Induction of Antibodies Against Antibodies," <i>J Exp. Med.</i> 185:1785-1792, The Rockefeller University Press (1997)
	AS	19	Folkman, J., and Klagsbrun, M., "Angiogenic Factors," <i>Science</i> 235:442-447, American Association for the Advancement of Science (1987)
	AT	19	Folkman, J., "Angiogenesis in cancer, vascular, rheumatoid and other disease," <i>Nat. Med.</i> 1:27-31, Nature Publishing Company (1995)

EXAMINER <i>mslu</i>	DATE CONSIDERED <i>1-5-05</i>
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	20	Forssmann, U., et al., "Eotaxin-2, a Novel CC Chemokine that Is Selective for the Chemokine Receptor CCR3, and Acts Like Eotaxin on Human Eosinophil and Basophil Leukocytes," <i>J. Exp. Med.</i> 185:2171-2176, The Rockefeller University Press (1997)
	AS	20	Fossiez, F., et al., "T Cell Interleukin-17 Induces Stromal Cells to Produce Proinflammatory and Hematopoietic Cytokines," <i>J. Exp. Med.</i> 183:2593-2603, The Rockefeller University Press (1996)
	AT	20	Fossiez F., et al., "Interleukin-17," <i>Intern. Rev. Immunol.</i> 16:541-551, Harwood Academic Publishers (1998)

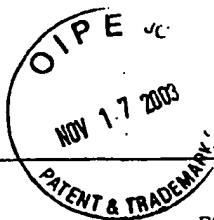
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	AN						Yes No
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	21	Fujiwara, K., et al., "Novel preparation method of immunogen for hydrophobic haptens, enzyme immunoassay for daunomycin and adriamycin," <i>J. Immunol. Methods</i> 45:195-203, Elsevier/North-Holland Biomedical Press (1981)
	AS	21	Gally, D.L., et al., "Environmental Regulation of the <i>fim</i> Switch Controlling Type 1 Fimbrial Phase Variation in <i>Escherichia coli</i> K-12: Effects of Temperature and Media," <i>J. Bacteriol.</i> 175:6186-6193, American Society for Microbiology (1993)
	AT	21	Gally, D. L., et al., "Interaction of FimB and FimE with the <i>fim</i> switch that controls the phase variation of type 1 fimbriae in <i>Escherichia coli</i> K-12," <i>Mol. Microbiol.</i> 21:725-738, Blackwell Science, Ltd. (1996)

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MM	AR	22	Gherardi, E. et al., "A single-step procedure for cloning and selection of antibody-secreting hybridomas," <i>J. Immunol. Methods</i> 126: 61-68, Elsevier (1990)
	AS	22	Golmohammadi, R., et al., "The crystal structure of bacteriophage Q β at 3.5Å resolution," <i>Structure</i> 4:543-554, Current Biology, Ltd. (1996)
	AT	22	Gunn, M.D., et al., "A B-cell-homing chemokine made in lymphoid follicles activates Burkitt's lymphoma receptor-1," <i>Nature</i> 391:799-803, Nature Publishing Group (1998)

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MM ↓	AR	23	Hanes, J., et al., "Picomolar affinity antibodies from a fully synthetic naive library selected and evolved by ribosome display," <i>Nat. Biotechnol.</i> 18:1287-1292, Nature Publishing Company (December 2000)
	AS	23	Hanson, M.S., et al., "Purification of the <i>Escherichia coli</i> Type 1 Pilin and Minor Pilus Proteins and Partial Characterization of the Adhesin Protein," <i>J. Bacteriol.</i> 170:3350-3358, American Society for Microbiology (1988)
	AT	23	Hanson, M.S., and Brinton, Jr., C.C., "Identification and characterization of <i>E. coli</i> type-1 pilus tip adhesion protein," <i>Nature</i> 332:265-268, Nature Publishing Group (1988)

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MM	AR	24	Harrison, J.L., et al., "Screening of Phage Antibody Libraries," <i>Methods Enzymol.</i> 267:83-109, Macmillan Publishers, Ltd. (1996)
	AS	24	Haslam, D.B., et al., "The amino-terminal domain of the P-pilus adhesin determines receptor specificity," <i>Mol. Microbiol.</i> 14:399-409, Blackwell Scientific Publications (1994)
	AT	24	Hedrick, J.A., and Zlotnik, A., "Identification and Characterization of a Novel β Chemokine Containing Six Conserved Cysteines," <i>J. Immunol.</i> 159: 1589-1593, The American Association of Immunologists (1997)

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MM	AR	25	Heveker, N., et al., Dissociation of the signalling and antiviral properties of SDF-1-derived small peptides," Curr. Biol. 8:369-376, Current Biology, Ltd. (1998)
	AS	25	Hirel, P.-H., et al., "Extent of N-terminal methionine excision from <i>Escherichia coli</i> proteins is governed by the side-chain length of the penultimate amino acid," Proc. Natl. Acad. Sci. USA 86:8247-8251, National Academy Press (1989)
	AT	25	Holmes, W.D., et al., "Solution Studies of Recombinant Human Stromal-Cell-Derived Factor-1," Prot. Expr. Purif. 21:367-377, Academic Press (April 2001)

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	26	Holmgren, A., et al., "Conserved immunoglobulin-like features in a family of periplasmic pilus chaperones in bacteria," <i>EMBO J.</i> 11:1617-1622, Oxford University Press (1992)
	AS	26	Holmgren, A., and Bränden, C.-I., "Crystal structure of chaperone protein PapD reveals an immunoglobulin fold," <i>Nature</i> 342:248-251, Nature Publishing Group (1989)
	AT	26	Hultgren, S.J., et al., "The PapG adhesin of uropathogenic <i>Escherichia coli</i> contains separate regions for receptor binding and for the incorporation into the pilus," <i>Proc. Nat. Acad. Sci. USA</i> 86:4357-4361, National Academy Press (1989)

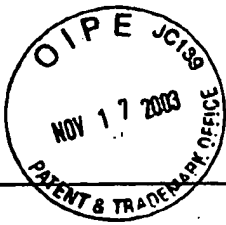
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U.S. PATENT DOCUMENTS

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	27	Hultgren, S.J., et al., "PapD and superfamily of periplasmic immunoglobulin-like pilus chaperones," Adv. Prot. Chem. 44:99-123, Academic Press, Inc. (1993)
	AS	27	Hultgren, S.J., et al., "Pilus and Nonpilus Bacterial Adhesins: Assembly and Function in Cell Recognition," Cell 73:887-901, Cell Press (1993)
	AT	27	Hultgren, S.J., et al., "Bacterial Adhesins and Their Assembly," in <i>Escherichia coli and Salmonella</i> , Neidhardt, P.C., et al., eds., ASM Press, Washington, D.C. pp. 2730-2756 (1996)

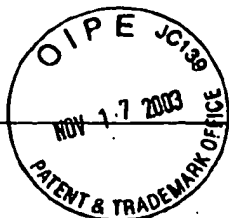
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM ↓	AR	28	Humbles, A.A., et al., "Kinetics of Eotaxin Generation and Its Relationship to Eosinophil Accumulation in Allergic Airways Disease: Analysis in a Guinea Pig Model In Vivo," J. Exp. Med. 186:601-612, The Rockefeller University Press (1997)
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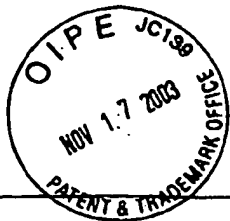
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MM	AR	29	Ikeda, T., et al., "Determination of Three Isoforms of the Receptor Activator of Nuclear Factor- κ B Ligand and Their Differential Expression in Bone and Thymus," <i>Endocrinology</i> 142:1419-1426, The Endocrine Society (April 2001)
	AS	29	Ingley E., et al., "Production and purification of recombinant human interleukin-5 from yeast and baculovirus expression systems," <i>Eur. J. Biochem.</i> 196:623-629, Blackwell Science, Ltd. (1991)
	AT	29	Jacob-Dubuisson, F., et al., "PapD chaperone function in pilus biogenesis depends on oxidant and chaperone-like activities of DsbA," <i>Proc. Natl. Acad. Sci. USA</i> 91:11552-11556, National Academy Press (1994)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM ↓	AR	30	Jacob-Dubuisson, F., et al., "Initiation of assembly and association of the structural elements of a bacterial pilus depend on two specialized tip proteins," EMBO J. 12:837-847, Oxford University Press (1993)
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	AT	30	Jiang, X., et al., "Norwalk Virus Genome Cloning and Characterization," Science 250:1580-1583, American Association for the Advancement of Science (1990)

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	AO						Yes No
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	MM	AR	31	Jones, C.H., et al., "FimC is a periplasmic PapD-like chaperone that directs assembly of type 1 pili in bacteria," <i>Proc. Natl. Acad. Sci. USA</i> 90:8397-8401, National Academy Press (1993)
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		AT	31	Josien, R., et al., "TRANCE, a Tumor Necrosis Factor Family Member, Enhances the Longevity and Adjuvant Properties of Dendritic Cells In Vivo," <i>J. Exp. Med.</i> 191: 495-501, The Rockefeller University Press (February 2000)

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	AR	32	Jovanovic, D.V., et al., "IL-17 Stimulates the Production and Expression of Proinflammatory Cytokines, IL- β and TNF- α , by Human Macrophages," <i>J. Immunol.</i> 160:3513-3521, The American Association of Immunologists (1998)
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	AT	32	Kastelein, R.A. et al., "Effect of the sequence upstream from the ribosome-binding site on the yield of protein from the cloned gene for phage MS2 coat protein," <i>Gene</i> 23:245-254, Elsevier (1983)

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	33	Kim, K.J., et al., "Inhibition of vascular endothelial growth factor-induced angiogenesis suppresses tumour growth in vivo," Nature 362:841-844, Nature Publishing Group (1993)
	AS	33	Kim, K.-H., et al., "A Cysteine-rich Adipose Tissue-specific Secretory Factor Inhibits Adipocyte Differentiation," J. Biol. Chem. 276:11252-11256, The American Society for Biochemistry and Molecular Biology, Inc. (April 2001)
	AT	33	Klemm, P., "The fimA gene encoding the type-1 fimbrial subunit of Escherichia coli. Nucleotide sequence and primary structure of the protein," Euro. J. Biochem. 143:395-399, Blackwell Science, Ltd. (1984)

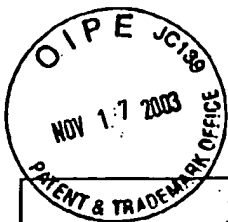
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	34	Klemm, P., and Christiansen, G., "Three <i>fim</i> genes required for the regulation of length and mediation of adhesion of <i>Escherichia coli</i> type 1 fimbriae," Mol. Gen. Genet. 208:439-445, Springer-Verlag (1987)
	AS	34	Klemm, P., et al., "The major subunit of <i>Escherichia coli</i> type 1 fimbriate is not required for D-mannose-specific adhesion," Mol. Microbiol. 4:553-559, Blackwell Scientific Publications (1990)
	AT	34	Klemm, P., and Christiansen, G., "The <i>fimD</i> gene required for cell surface localization of <i>Escherichia coli</i> type 1 fimbriae," Mol. Gen. Genet. 220:334-338, Springer-Verlag (1990)

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	AM						Yes No
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM ↓	AR	35	Klemm, P., "FimC, a chaperone-like periplasmic protein of <i>Escherichia coli</i> involved in biogenesis of type 1 fimbriae," <i>Res. Microbiol.</i> 143:831-838, Institut Pasteur/Elsevier (1992)
	AS	35	Klemm, P., and Krogfelt, K.A., "Type 1 Fimbriae of <i>Escherichia coli</i> ," in <i>Fimbriae</i> , Klemm, P., ed., CRC Press, Inc., Boca Raton, FL., pp.9-26 (1994)
	AT	35	Kodama, S., et al., "Characterization of recombinant murine interleukin 5 expressed in Chinese hamster ovary cells," <i>Glycobiology</i> 2:419-427, Oxford University Press (1992)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	36	Kodama, S., et al., "Carbohydrate Structures of Human Interleukin 5 Expressed in Chinese Hamster Ovary Cells," J. Biochem. (Tokyo) 110:693-701, Japanese Biochemical Society (1991)
	AS	36	Kopf, M., et al., "IL-5-Deficient Mice Have a Developmental Defect in CD5 ⁺ B-1 Cells and Lack Eosinophilia but have Normal Antibody and Cytotoxic T Cell Responses," Immunity 4:15-24, Cell Press (1996)
	AT	36	Koschel, M., et al., "Extensive Mutagenesis of the Hepatitis B Virus Core Gene and Mapping of Mutations That Allow Capsid Formation," J. Virol 73:2153-2160, American Society for Microbiology (1999)

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MM	AR	37	Kohts, K., "Structure-Function Studies on Human Macrophage Colony-Stimulating Factor (M-CSF)," Mol. Reprod. Dev. 46:31-38, Wiley-Liss, Inc. (1997)
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	AT	37	Kozlovskaya, T.M., et al., "Formation of capsid-like structures as a result of the expression of a cloned envelope protein gene from RNA-containing bacteriophage fr," Dokl. Akad. Nauk. SSSR 287: 452-455, Erivan Akademiai Nauk Armianskoi Ssr (1986)

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MM	AR	38	Kozlovskaya, T.M., et al., "Formation of capsid-like structures as a result of the expression of a cloned envelope protein gene from RNA-containing bacteriophage fr," STNEasy, Accession No. 1986:219892, CAPUS English abstract (1986) (Document AT37)
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	AT	38	Kuehn, M.J., et al., "Structural Basis of Pilus Subunit Recognition by the PapD Chaperone," <i>Science</i> 262:1234-1241, American Association for the Advancement of Science (1993)

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	AP						Yes No

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MM ↓	AR	39	Kunimoto, D.Y., et al., "High-level production of murine interleukin-5 (IL-5) utilizing recombinant baculovirus expression. Purification of the rIL-5 and its use in assessing the biologic role of IL-5 glycosylation," Cytokine 3:224-230, W.B. Saunders Company (1991)
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	AT	39	Leake, C.J., et al., "Cytopathic Effect and Plaque Formation by Arboviruses in a Continuous Cell Line (XTC-2) from the Toad <i>Xenopus laevis</i> ," J. gen. Virol. 35:335-339, Cambridge University Press (1977)

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	AR	40	Lee, K.H., et al., "Two-Dimensional Electrophoresis of Proteins as a Tool in the Metabolic Engineering of Cell Cycle Regulation," <i>Biotech. Bioeng.</i> 50:336-340, John Wiley & Sons, Inc. (1996)
	AS	40	Leech, M., et al., "Involvement of macrophage migration inhibitory factor in the evolution of rat adjuvant arthritis," <i>Arthritis Rheum.</i> 41:910-917, Arthritis Foundation (1998)
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	41	Liljeström, P., and Garoff, H., "A new generation of animal cell expression vectors based on the semliki forest virus replicon," <i>Bio/technology</i> 9:1356-1361, Nature Publishing Company (1991)
	AS	41	Liljeström, P., "Alphavirus expression systems," <i>Curr. Opin. Biotechnol.</i> 5:495-500, Current Biology, Ltd. (1994)
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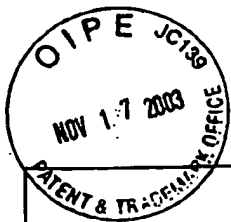
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MM ↓	AR	42	Lin, E.Y., et al., "Colony-stimulating Factor 1 Promotes Progression of Mammary Tumors to Malignancy," J. Exp. Med. 193:727-739, The Rockefeller University Press (March 2001)
	AS	42	Lindberg, F., et al., "PapD, a Periplasmic Transport Protein in P-Pilus Biogenesis," J. Bacteriol. 171:6052-6058, American Society for Microbiology (1989)
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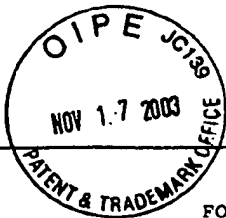
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MM ↓	AR	43	López, O., et al., "Direct formation of mixed micelles in the solubilization of phospholipid liposomes by Triton X-100," <i>FEBS Lett.</i> 426:314-318, Elsevier (1998)
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	AT	43	Lu, D., et al., "Identification of the Residues in the Extracellular Region of KDR Important for Interaction with Vascular Endothelial Growth Factor and Neutralizing Anti-KDR Antibodies," <i>J. Biol. Chem.</i> 275:14321-14330, The American Society for Biochemistry and Molecular Biology, Inc. (May 2000)

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MM	AR	44	Lum, L., et al., "Evidence for a Role of a Tumor Necrosis Factor- α (TNF- α)- converting Enzyme-like Protease in Shedding of TRANCE, a TNF Family Member Involved in Osteoclastogenesis and Dendritic Cell Survival," J. Biol. Chem. 274:13613-13618, The American Society for Biochemistry and Molecular Biology, Inc. (1999)
	AS	44	Lundstrom, K., "Alphaviruses as expression vectors," Curr. Opin. Biotechnol. 8:578-582, Current Biology, Ltd. (1997)
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MM	AR	45	Mackay, J.L., and Browning, J.L., "Turning off follicular dendritic cells," <i>Nature</i> 395:26-27, Macmillan Magazines, Ltd. (1998)
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	AT	45	Matsui, S.M., et al., "The Isolation and Characterization of a Norwalk Virus-Specific cDNA," <i>J. Clin. Invest.</i> 87:1456-1461, The American Society for Clinical Investigation, Inc. (1991)

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MM	AR	46	Matsumoto, M., et al., "Role of Lymphotoxin and the Type 1 TNF Receptor in the Formation of Germinal Centers," <i>Science</i> 271:1289-1291, American Association for the Advancement of Science (1996)
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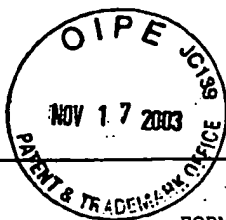
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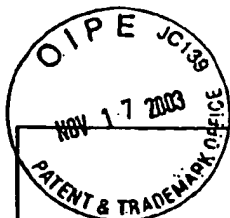
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MM ↓	AR	47	Mayer, K.L., and Stone, M.J., "NMR Solution Structure and Receptor Peptide Binding of the CC Chemokine Eotaxin-2," <i>Biochemistry</i> 39:8382-8395, American Chemical Society (July 2000)				
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MM ↓	AR	48	Mikulowska, A., et al., "Macrophage Migration Inhibitory Factor Is Involved in the Pathogenesis of Collagen Type II-Induced Arthritis in Mice," <i>J. Immunol.</i> 158:5514-5517, The American Association of Immunologists (1997)
	AS	48	Millauer, B., et al., "Glioblastoma growth inhibited <i>in vivo</i> by a dominant-negative Flk-1 mutant," <i>Nature</i> 367:576-579, Nature Publishing Group (1994)
	AT	48	Min, H., et al., "Osteoprotegerin Reverses Osteoporosis by Inhibiting Endosteal Osteoclasts and Prevents Vascular Calcification by Blocking a Process Resembling Osteoclastogenesis," <i>J. Exp. Med.</i> 192:463-474, The Rockefeller University Press (August 2000)

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MM	AR	49	Mitchell, D.L., et al., "Purification and characterization of recombinant murine interleukin-5 glycoprotein, from a Baculovirus expression system," <i>Biochem. Soc. Trans.</i> 21:332S, Portland Press (1993)
	AS	49	Montrasio, F. et al., "Impaired Prion Replication in Spleens of Mice Lacking Functional Follicular Dendritic Cells," <i>Science</i> 288:1257-1259, American Association for the Advancement of Science (May 2000)
	AT	49	Morein, B., et al., "Iscom, a novel structure for antigenic presentation of membrane proteins from enveloped viruses," <i>Nature</i> 308:457-460, Nature Publishing Group (1984)

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MM	AR	50	Moriya, C., et al., "Large quantity production with extreme convenience of human SDF-1 α and SDF-1 β by a Sendai virus vector," <i>FEBS Lett.</i> 425:105-111, Amsterdam Elsevier Science B.V. (1998)
	AS	50	Müller, A., et al., "Involvement of chemokine receptors in breast cancer metastasis," <i>Nature</i> 410:50-56, Nature Publishing Group (March 2001)
	AT	50	Murphy, Jr., K.P., et al., "Expression of Human Interleukin-17 in <i>Pichia pastoris</i> : Purification and Characterization," <i>Protein Expr. Purif.</i> 12:208-214, Academic Press (1998)

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MM	AR	51	Nagira, M., et al., "Molecular Cloning of a Novel Human CC Chemokine Secondary Lymphoid-Tissue Chemokine That Is a Potent Chemoattractant for Lymphocytes and Mapped to Chromosome 9p13," J. Biol. Chem. 272:19518-19524, The American Society for Biochemistry and Molecular Biology, Inc. (1997)
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	AT	51	Naureckiene, S., and Uhlin., B.E., "In vitro analysis of mRNA processing by Rnase E in the pap operon of Esherichia coli," Mol. Microbiol. 21:55-68, Blackwell Science, Ltd. (1996)

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MM ↓	AR	52	Neiryneck, S., et al., "A universal influenza A vaccine based on the extracellular domain of the M2 protein," Nat. Med. 5:1157-1163, Nature Publishing Company (1999)
	AS	52	Newman, J.V., et al., "Stimulation of <i>Escherichia coli</i> F-18Col Type-1 fimbriae synthesis by leuX," FEMS Microbiol. Lett. 122:281-287, Elsevier (1994)
	AT	52	Ni, C.-Z., et al., "Crystal structure of the coat protein from the GA bacteriophage: Model of the unassembled dimer," Protein Sci. 5:2485-2493, Cambridge University Press (1996)

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MM	AR	53	Nilsson, P., et al., "Mutations Affecting mRNA Processing and Fimbrial Biogenesis in the <i>Escherichia coli</i> pap Operon," <i>J. Bacteriol.</i> 178:683-690, American Society for Microbiology (1996)
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	AT	53	Ohnishi, Y., et al., "Crystal Structure of Recombinant Native SDF-1 α with Additional Mutagenesis Studies: An Attempt at a More Comprehensive Interpretation of Accumulated Structure-Activity Relationship Data," <i>J. Interferon Cytokine Res.</i> 20:691-700, Mary Ann Liebert, Inc. (August 2000)

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MM	AR	54	Olszewska, W., et al., "Protection against Measles Virus-Induced Encephalitis by Anti-mimotope Antibodies: The Role of Antibody Affinity," <i>Virology</i> 272:98-105, Academic Press (June 2000)
	AS	54	Orndorff, P.E., and Falkow, S., "Identification and Characterization of a Gene Product That Regulates Type 1 Piliation in <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> 160:61-66, American Society for Microbiology (1984)
	AT	54	Orndorff, P.E., and Falkow, S., "Nucleotide Sequence of pila, the Gene Encoding the Structural Component of Type 1 Pili in <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> 162:454-457, American Society for Microbiology (1985)

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FORM PTO-1449

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	55	O'Shea, E.K., et al., "Evidence That the Leucine Zipper Is a Coiled Coil," <i>Science</i> 243:538-542, American Association for the Advancement of Science (1989)
	AS	55	O'Shea, E.K., et al., "Mechanism of Specificity in the Fos-Jun Oncoprotein Heterodimer," <i>Cell</i> 68:699-708, Cell Press (1992)
	AT	55	Pandit, J., et al., "Three-dimensional Structure of Dimeric Human Recombinant Macrophage Colony-Stimulating Factor," <i>Science</i> 258:1358-1362, American Association for the Advancement of Science (1992)

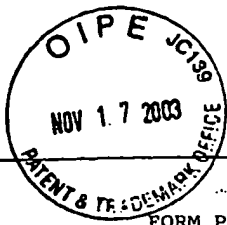
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MM ↓	AR	56	Pierrot, C., et al., "Expression of Rat Interleukin-5 and Generation of Neutralizing Antiserum: a Comparative Study of Rat IL-5 Produced in <i>Escherichia coli</i> and Insect Cells," <i>Biochem. Biophys. Res. Commun.</i> 253:756-760, Academic Press (1998)
	AS	56	Pierson-Mullany, L.K., et al. "Characterization of polyclonal allergen-specific IgE responses by affinity distributions," <i>Mol. Immunol.</i> 37:613-620, Elsevier Science, Ltd. (August 2000)
	AT	56	Piossek, C., et al., "Vascular Endothelial Growth Factor (VEGF) Receptor II-derived Peptides Inhibit VEGF," <i>J. Biol. Chem.</i> 274:5612-5619, The American Society for Biochemistry and Molecular Biology, Inc. (1999)

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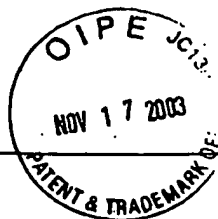
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
MM ↓	AR	57	Presta, L.G., et al., "Humanization of an Anti-Vascular Endothelial Growth Factor Monoclonal Antibody for the Therapy of Solid Tumors and Other Disorders," Cancer Res. 57:4593-4599, The American Association for Cancer Research (1997)				
	AS	57	Priano, C., et al., "A Complete Plasmid-based Complementaion System for RNA Coliphage Q β : Three Proteins of Bacteriophages Q β (Group III) and SP (Group IV) can be Interchanged," J. Mol. Biol. 249:283-297, Academic Press, Ltd. (1995)				
	AT	57	Proudfoot, A.E.I., et al., "Preparation and characterization of human interleukin-5 expressed in recombinant Escherichia coli," Biochem. J. 270:357-361, Portland Press, Ltd. (1990)				
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MM	AR	58	Renner, W.A., et al., "Recombinant Cyclin E Expression Activates Proliferation and Obviates Surface Attachment of Chinese Hamster Ovary (CHO) Cells in Protein-Free Medium," <i>Biotech. Bioeng.</i> 47:476-482, John Wiley & Sons, Inc. (1995)
	AS	58	Risau, W., "Mechanisms of angiogenesis," <i>Nature</i> 386:671-674, Nature Publishing Group (1997)
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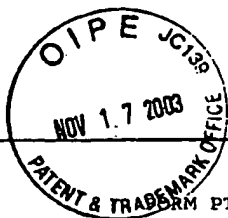
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MM	AR	59	Roesch, P.L., and Blomfield, I.C., "Leucine alters the interaction of the leucine-responsive regulatory protein (Lrp) with the fim switch to stimulate site-specific recombination in <i>Escherichia coli</i> ," <i>Mol. Microbiol.</i> 27:751-761, Blackwell Science, Ltd. (1998)
	AS	59	Roher, A.E., et al., "Isolation and Chemical Characterization of Alzheimer's Disease Paired Helical Filament Cytoskeletons: Differentiation from Amyloid Plaque Core Protein," <i>J. Cell Biol.</i> 107:2703-2716, The Rockefeller University Press (1988)
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MM	AR	60	Romagnani, S., "The Th1/Th2 paradigm," <i>Immunol. Today</i> 18:263-266, Elsevier Science, Ltd. (1997)
	AS	60	Rothenberg, M.E., et al., "Targeted Disruption of the Chemokine Eotaxin Partially Reduces Antigen-induced Tissue Eosinophilia," <i>J. Exp. Med.</i> 185:785-790, The Rockefeller University Press (1997)
	AT	60	Rusconi, S., et al., "In vitro inhibition of HIV-1 by Met-SDF-1 β alone or in combination with antiretroviral drugs," <i>Antivir. Ther.</i> 5:199-204, International Medical Press (September 2000)

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MM	AR	61	Russell, P.W., and Orndorff, P.E., "Lesions in Two <i>Escherichia coli</i> Type 1 Pilus Genes Alter Pilus Number and Length without Affecting Receptor Binding," <i>J. Bacteriol.</i> 174:5923-5935, American Society for Microbiology (1992)
	AS	61	Santos, L., et al., "Role of macrophage migration inhibitory factor (MIF) in murine antigen-induced arthritis: interaction with glucocorticoids," <i>Clin. Exp. Immunol.</i> 123:309-314, Blackwell Science (February 2001)
	AT	61	Saulino, E.T., et al., "Ramifications of kinetic partitioning on usher-mediated pilus biogenesis," <i>EMBO J.</i> 17:2177-2185, Oxford University Press (1998)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
MM ↓	AR	62	Schenk, D., et al., "Immunization with amyloid- β attenuates Alzheimer-disease-like pathology in the PDAPP mouse," <i>Nature</i> 400:173-177, Nature Publishing Group (1999)
	AS	62	Schlesinger, S., "Alphaviruses - vectors for the expression of heterologous genes," <i>Trends Biotechnol.</i> 11:18-22, Elsevier Science Publishers, Ltd. (1993)
	AT	62	Selkoe, D.J., "Translating cell biology into therapeutic advances in Alzheimer's disease," <i>Nature</i> 399:A23-A31, Nature Publishing Group (1999)

EXAMINER <i>msch</i>	DATE CONSIDERED 1-5-06
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MM	AR	63	Slonim, L.N., et al., "Interactive surface in the PapD chaperone cleft is conserved in pilus chaperone superfamily and essential in subunit recognition and assembly," <i>EMBO J.</i> 11:4747-4756, Oxford University Press (1992)
	AS	63	Smyth, C.J., et al., "Fimbrial adhesins: similarities and variations in structure and biogenesis," <i>FEMS Immun. Med. Microbiol.</i> 16:127-139, Elsevier (1996)
	AT	63	Soto, H., et al., "The CC chemokine 6Ckine binds the CXC chemokine receptor CXCR3," <i>Proc. Natl. Acad. Sci. USA</i> 95:8205-8210, National Academy Press (1998)

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MM	AR	64	Soto, G.E., et al., "Periplasmic chaperone recognition motif of subunits mediates quaternary interactions in the pilus," <i>EMBO J.</i> 17:6155-6167, Oxford University Press (1998)
	AS	64	Soto, G.E., and Hultgren, S.J., "Bacterial Adhesins: Common Themes and Variations in Architecture and Assembly," <i>J. Bacteriol.</i> 181:1059-1071, American Society for Microbiology (1999)
	AT	64	Steppan, C.M., et al., "The hormone resistin links obesity to diabetes," <i>Nature</i> 409:307-312, Nature Publishing Group (January 2001)

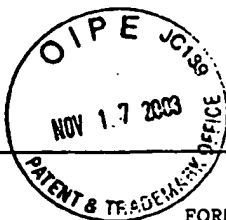
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MM	AR	65	Stollar, V., "Togaviruses in Cultured Arthropod Cells," in <i>The Togaviruses. Biology, Structure, Replication</i> , Schlesinger, R.W., ed., Academic Press, Inc. New York, N.Y., pp.583-621 (1980)
	AS	65	Strauss, J., and Strauss, E.G., "The Alphaviruses: Gene Expression, Replication, and Evolution," <i>Microbiol. Rev.</i> 58:491-562, American Society for Microbiology (1994)
	AT	65	Striker, R.T., et al., "Stable Fiber-forming and Nonfiber-forming Chaperone-Subunit Complexes in Pilus Biogenesis," <i>J. Biol. Chem.</i> 269:12233-12239, The American Society for Biochemistry and Molecular Biology, Inc. (1994)

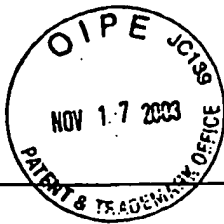
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MM	AR	66	Sturchler-Pierrat, C., et al., "Two amyloid precursor protein transgenic mouse models with Alzheimer disease-like pathology," <i>Proc. Natl. Acad. Sci. USA</i> 94:13287-13292, National Academy Press (1997)
	AS	66	Sun, H.-W., et al., "Crystal structure at the 2.6-Å resolution of human macrophage migration inhibitory factor," <i>Proc. Natl. Acad. Sci. USA</i> 93:5191-5196, National Academy Press (1996)
	AT	66	Tang, J.-L., et al., "Interleukin-17 antagonism inhibits acute but not chronic vascular rejection," <i>Transplantation</i> 72:348-350, Lippincott Williams & Wilkins (July 2001)

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MM	AR	67	Tanimori, H., et al., "Enzyme immunoassay of neocarzinostatin using β -galactosidase as label," <i>J. Pharm. Dyn.</i> 4:812-819, Pharmaceutical Society of Japan (1981)
	AS	67	Teixeira, M.M., et al., "Chemokine-induced Eosinophil Recruitment. Evidence of a Role for Endogenous Eotaxin in an In Vivo Allergy Model in Mouse Skin," <i>J. Clin. Invest.</i> 100:1657-1666, The American Society for Clinical Investigation, Inc. (1997)
	AT	67	Tewari, R., et al., "Neutrophil Activation by Nascent FimH Subunits of Type I Fimbriae Purified from the Periplasm of <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 268:3009-3015, The American Society for Biochemistry and Molecular Biology, Inc. (1993)

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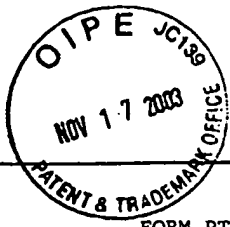
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	AN						Yes No
	AO						Yes No
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MM	AR	68	Teunissen, M.B.M., et al., "Interleukin-17 and Interferon- γ Synergize in the Enhancement of Proinflammatory Cytokine Production by Human Keratinocytes," J. Invest. Dermatol. 111:645-649, The Society for Investigative Dermatology, Inc. (1998)
	AS	68	Thanassi, D.G., et al., "The PapC usher forms an oligomeric channel: Implications for pilus biogenesis across the outer membrane," Proc. Natl. Acad. Sci. USA 95:3146-3151, National Academy Press (1998)
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EXAMINER <i>mslu</i>	DATE CONSIDERED <i>1-5-06</i>
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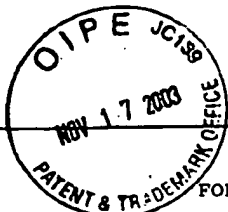
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MM	AR	70	Vicari, A.P., et al., "Antitumor Effects of the Mouse Chemokine 6CKine/SLC Through Angiostatic and Immunological Mechanisms," <i>J. Immunol.</i> 165:1992-2000, The American Association of Immunologists (August 2000)
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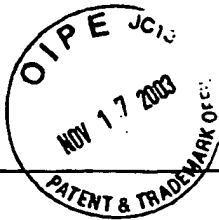
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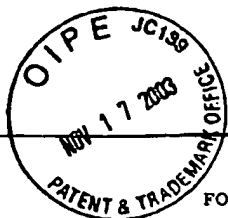
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MM	AR	72	Witherell, G.W., and Uhlenbeck, O.C., "Specific RNA Binding by Q β Coat Protein," <i>Biochemistry</i> 28:71-76, American Chemical Society (1989)				
	AS	72	Wong, C.K., et al., "Elevation of proinflammatory cytokine (IL-18, IL-17, IL-12) and Th2 cytokine (IL-4) concentrations in patients with systemic lupus erythematosus," <i>Lupus</i> 9:589-593, Macmillan Publishers Ltd. (2000)				
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MM	AR	73	Wuttke, M., et al., "Structural Characterization of Human Recombinant and Bone-derived Bone Sialoprotein," <i>J. Biol. Chem.</i> 276:36839-36848, The American Society for Biochemistry and Molecular Biology, Inc. (2001)
	AS	73	Wynne, S.A., et al., "The Crystal Structure of the Human Hepatitis B Virus Capsid," <i>Mol. Cell</i> 3:771-780, Cell Press (1999)
	AT	73	Xiong, C., et al., "Sindbis Virus: An Efficient, Broad Host Range Vector for Gene Expression in Animal Cells," <i>Science</i> 243:1188-1191, American Association for the Advancement of Science (1989)

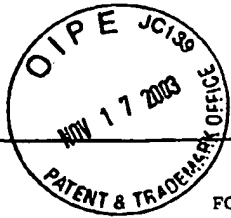
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	AT	74	Yone, K., et al., "Epitopic Regions for Antibodies against Tumor Necrosis Factor α ," J. Biol. Chem. 270:19509-19515, The American Society for Biochemistry and Molecular Biology, Inc. (1995)

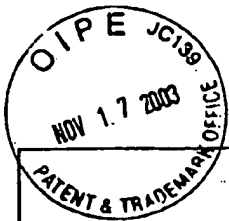
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM ↓	AR	75	Yuan, T-T., et al., "Subtype-Independent Immature Secretion and Subtype-Dependent Replication Deficiency of a Highly Frequent, Naturally Occurring Mutation of Human Hepatitis B Virus Core Antigen," J. Virol. 73:10122-10128, American Society for Microbiology (1999)
	AS	75	Zang, M., et al., "Production of Recombinant Proteins in Chinese Hamster Ovary Cells Using A Protein-Free Cell Culture Medium," Bio/Technology 13:389-392, Nature Publishing Company (1995)
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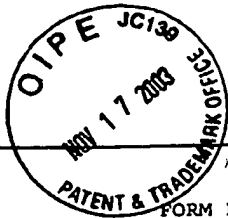
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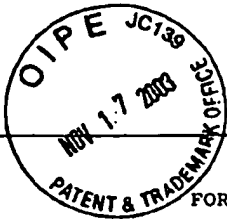
FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1700.0300001/BJD/SJE	APPLICATION NO. 10/622,064
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
MM	AR	76	Zimmermann, N., et al., "Murine Eotaxin-2: A Constitutive Eosinophil Chemokine Induced by Allergen Challenge and IL-4 Overexpression," J. Immunol. 165:5839-5846, The American Association of Immunologists (November 2000)
	AS	76	Ziolkowska, M., et al., "High Levels of IL-17 in Rheumatoid Arthritis Patients: IL-15 Triggers In Vitro IL-17 Production Via Cyclosporin A-Sensitive Mechanism," J. Immunol. 164:2832-2838, The American Association of Immunologists (March 2000)
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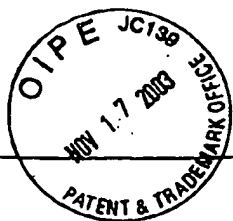
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	AS	77	Frenkel, D., et al., "Generation of auto-antibodies towards Alzheimer's disease vaccination," Vaccine 19:2615-2619, Elsevier Science, Ltd. (March 2001)
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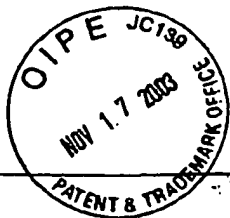
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	AS	78	Kozlovska, T.M., et al., "RNA Phage Q β Coat Protein as a Carrier for Foreign Epitopes," <i>Intervirology</i> 39:9-15, S. Karger AG (1996)				
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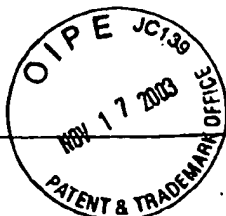
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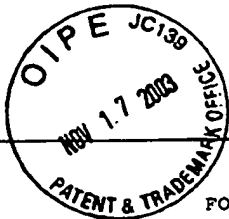
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 1209. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

ATTY. DOCKET NO.
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10/622,064APPLICANT
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1645INFORMATION DISCLOSURE STATEMENT

U.S. PATENT DOCUMENTS

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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MM ↓	AR	82	Connor, R.I., et al., "Immunological and Virological Analyses of Persons Infected by Human Immunodeficiency Virus Type 1 while Participating in Trials of Recombinant gp120 Subunit Vaccines," J. Virol. 72:1552-1576, American Society for Microbiology (1998)
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	83	de la Cruz, V.F., et al., "Immunogenicity and Epitope Mapping of Foreign Sequences via Genetically Engineered Filamentous Phage," J. Biol. Chem. 263:4318-4322, The American Society for Biochemistry and Molecular Biology, Inc. (1988)
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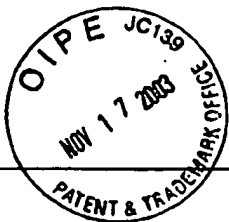
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1-5-06

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	AM						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	84	Esposito, G., et al., "Conformational study of a short Pertussis toxin T cell epitope incorporated in a multiple antigen peptide template by CD and two-dimensional NMR: Analysis of the structural effects on the activity of synthetic immunogens," Eur. J. Biochem. 217:171-187, Blackwell Science Ltd. on behalf of the Federation of European Biochemical Societies (1993)
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	AM						Yes No
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MM ↓	AR	85	Gilbert, S.C., et al., "A protein particle vaccine containing multiple malaria epitopes," Nat. Biotechnol. 15:1280-1284, Nature America Publishing (1997)
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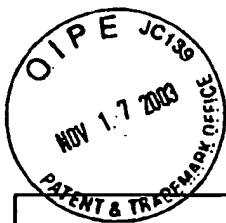
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	AM						Yes No
	AN						Yes No
	AO						Yes No
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MM ↓	AR	86	Harding, C.V., and Song, R., "Phagocytic Processing of Exogenous Particulate Antigens by Macrophages for Presentation by Class I MHC Molecules," <i>J. Immunol.</i> 153:4925-4933, The American Association of Immunologists (1994)
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1-5-06

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FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1700.0300001/BJD/SJE	APPLICATION NO. 10/622,064
	APPLICANT BACHMANN et al.	
	FILING DATE July 18, 2003	GROUP 1645

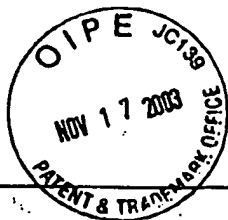
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	AM						Yes No
	AN						Yes No
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	AR	87	Iannolo, G., et al., "Construction, Exploitation and Evolution of a New Peptide Library Displayed at High Density by Fusion to the Major Coat Protein of Filamentous Phage," <i>Biol. Chem.</i> 378:517-521, Walter de Gruyter & Co. (1997)
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	AO						Yes No
	AP						Yes No

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MM	AR	88	Kovacsovics-Bankowski, M., et al., "Efficient major histocompatibility complex class I presentation of exogenous antigen upon phagocytosis by macrophages," <i>Proc. Natl. Acad. Sci. USA</i> 90:4942-4946, National Academy Press (1993)
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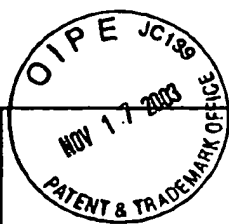
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MM ↓	AR	89	Neurath, A.R., et al., "Hepatitis B Virus surface antigen (HBsAg) as carrier for synthetic peptides having an attached hydrophobic tail," <i>Mol. Immunol.</i> 26:53-62, Pergamon Press (1989)
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	AT	89	Petrenko, V.A., et al., "A library of organic landscapes on filamentous phage," <i>Protein Engin.</i> 9:797-801, Oxford University Press (1996)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	90	Pumpens, P. and Grens, E., "Hepatitis B core particles as a universal display model: a structure-function basis for development," <i>FEBS Lett.</i> 442:1-6, Elsevier Science B.V. on behalf of the Federation of European Biochemical Societies (1999)
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	AT	90	Raychaudhuri, S., and Rock, K.L., "Fully mobilizing host defense: Building better vaccines," <i>Nat. Biotechnol.</i> 16:1025-1031, Nature America, Inc. (1998)

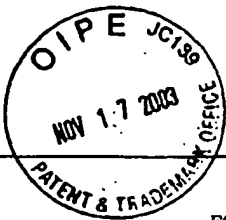
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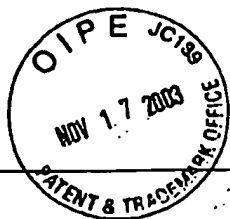
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	AM						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	92	Shen, L., et al., "Recombinant Virus Vaccine-Induced SIV-Specific CD8 ⁺ Cytotoxic T Lymphocytes," <i>Science</i> 252:440-443, American Association for the Advancement of Science (1991)
I	AS	92	Tanimori, H., et al., "Enzyme Immunoassay of Neocarzinostatin Using β -Galactosidase as Label," <i>J. Pharm. Dyn.</i> 4:812-819, Pharmaceutical Society of Japan (1981)
↓	AT	92	Townsend, A., and Bodmer, H., "Antigen recognition by class I-restricted T lymphocytes," <i>Ann. Rev. Immunol.</i> 7:601-624, Annual Reviews, Inc. (1989)

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DATE CONSIDERED

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	93	VanCott, T.C., et al., "Antibodies with Specificity to Native gp120 and Neutralization Activity against Primary Human Immunodeficiency Virus Type 1 Isolates Elicited by Immunization with Oligomeric gp160," J. Virol. 71:4319-4330, American Society for Microbiology (1997)
↓	AS	93	Watkins, S.J., et al., "The 'adenobody' approach to viral targeting: specific and enhanced adenoviral gene delivery," Gene Ther. 4:1004-1012, Stockton Press (1997)
	AT	93	Willis, A.E., et al., "Immunological properties of foreign peptides in multiple display on a filamentous bacteriophage," Gene 128:79-83, Elsevier Science Publishers B.V. (1993)

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MM	AR	94	Dialog File 351, Accession No. 9831660, Derwent WPI English language abstract for WO 94/06472 (Document AP3)
	AS	94	International Preliminary Examination Report for International Application No. PCT/IB99/01925, European Patent Office, Munich (August 2000) (not for publication)
	AT	94	International Search Report for International Application No. PCT/IB99/01925, European Patent Office, Netherlands (June 2000) (not for publication)

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	APPLICANT BACHMANN et al.	
	FILING DATE July 18, 2003	GROUP 1645

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	AP						Yes No

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MM	AR	95	NCBI Entrez, GenBank Report, Accession No. P03153, from Seeger, C., et al. (January 1990)
	AS	95	NCBI Entrez, GenBank Report, Accession No. X59397, from Jordan, C.T., et al. (November 1991)
	AT	95	NCBI Entrez, GenBank Report, Accession No. 711678A, from Shipolini, R.A., et al. (July 1992)

EXAMINER <i>msch</i>	DATE CONSIDERED <i>1-5-05</i>
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FORM PTO-1449

ATTY. DOCKET NO.
1700.0300001/BJD/SJEAPPLICATION NO.
10/622,064APPLICANT
BACHMANN et al.FILING DATE
July 18, 2003GROUP
1645INFORMATION DISCLOSURE STATEMENT

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	96	NCBI Entrez, GenBank Report, Accession No. M27603, from Orndorff, P.E., and Falkow, S. (April 1993)
	AS	96	NCBI Entrez, GenBank Report, Accession No. M20706, from Nassal M. (April 1993)
	AT	96	NCBI Entrez, GenBank Report, Accession No. AAA37490, from Rouvier E. (July 1993)

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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1700.0300001/BJD/SJE	APPLICATION NO. 10/622,064
	APPLICANT BACHMANN et al.	
	FILING DATE July 18, 2003	GROUP 1645

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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	AM3						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
MM	AR	97	NCBI Entrez, GenBank Report, Accession No. M90520, from Kew, M.C., et al. (August 1993)
	AS	97	NCBI Entrez, GenBank Report, Accession No. X00981, from Klemm, P. (September 1993)
	AT	97	NCBI Entrez, GenBank Report, Accession No. VCBPQB, from Maita, T., and Konigsberg, W. (December 1993)

EXAMINER	DATE CONSIDERED
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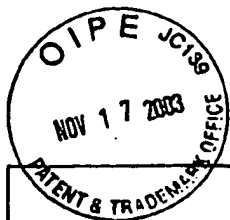
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	98	NCBI Entrez, GenBank Report, Accession No. AAA16663, from Kozlovska, T.M., et al. (March 1994)
	AS	98	NCBI Entrez, GenBank Report, Accession No. X02514, from Yanisch-Perron, C., et al. (May 1994)
	AT	98	NCBI Entrez, GenBank Report, Accession No. X85256, from Lai, M.E., et al. (April 1995)

EXAMINER <i>mslu</i>	DATE CONSIDERED <i>1-5-05</i>
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM ↓	AR	99	NCBI Entrez, GenBank Report, Accession No. X85259, from Lai, M.E., et al., (April 1995)
	AS	99	NCBI Entrez, GenBank Report, Accession No. X85260, from Lai, M.E., et al. (April 1995)
	AT	99	NCBI Entrez, GenBank Report, Accession No. X85272, from Lai, M.E., et al. (April 1995)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>100</u>	NCBI Entrez, GenBank Report, Accession No. X85275, from Lai, M.E., et al. (April 1995)
	AS	<u>100</u>	NCBI Entrez, GenBank Report, Accession No. X85284, from Lai, M.E., et al. (April 1995)
	AT	<u>100</u>	NCBI Entrez, GenBank Report, Accession No. X85285, from Lai, M.E., et al. (April 1995)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>101</u>	NCBI Entrez, GenBank Report, Accession No. X85286, from Lai, M.E., et al. (April 1995)
	AS	<u>101</u>	NCBI Entrez, GenBank Report, Accession No. X85287, from Lai, M.E., et al. (April 1995)
	AT	<u>101</u>	NCBI Entrez, GenBank Report, Accession No. X85291, from Lai, M.E., et al. (April 1995)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	102	NCBI Entrez, GenBank Report, Accession No. X85293, from Lai, M.E., et al. (April 1995)
	AS	102	NCBI Entrez, GenBank Report, Accession No. X85295, from Lai, M.E., et al. (April 1995)
	AT	102	NCBI Entrez, GenBank Report, Accession No. X85296, from Lai, M.E., et al. (April 1995)

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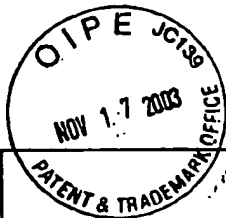
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>103</u>	NCBI Entrez, GenBank Report, Accession No. X85297, from Lai, M.E., et al. (April 1995)		
	AS	<u>103</u>	NCBI Entrez, GenBank Report, Accession No. X85298, from Lai, M.E., et al. (April 1995)		
	AT	<u>103</u>	NCBI Entrez, GenBank Report, Accession No. X85299, from Lai, M.E., et al. (April 1995)		
EXAMINER				DATE CONSIDERED	1-5-06

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>104</u>	NCBI Entrez, GenBank Report, Accession No. X85301, from Lai, M.E., et al. (April 1995)
	AS	<u>104</u>	NCBI Entrez, GenBank Report, Accession No. X85302, from Lai, M.E., et al. (April 1995)
	AT	<u>104</u>	NCBI Entrez, GenBank Report, Accession No. X85303, from Lai, M.E., et al. (April 1995)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM ↓ ↓ ↓	AR	105	NCBI Entrez, GenBank Report, Accession No. X85305, from Lai, M.E., et al. (April 1995)
	AS	105	NCBI Entrez, GenBank Report, Accession No. X85307, from Lai, M.E., et al. (April 1995)
	AT	105	NCBI Entrez, GenBank Report, Accession No. X85311, from Lai, M.E., et al. (April 1995)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	106	NCBI Entrez, GenBank Report, Accession No. X85314, from Lai, M.E., et al. (April 1995)
	AS	106	NCBI Entrez, GenBank Report, Accession No. X85315, from Lai, M.E., et al. (April 1995)
	AT	106	NCBI Entrez, GenBank Report, Accession No. X85316, from Lai, M.E., et al. (April 1995)

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	APPLICANT BACHMANN et al.	
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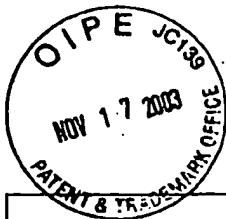
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MM ↓	AR	107	NCBI Entrez, GenBank Report, Accession No. X85317, from Lai, M.E., et al. (April 1995)				
	AS	107	NCBI Entrez, GenBank Report, Accession No. X85319, from Lai, M.E., et al. (April 1995)				
	AT	107	NCBI Entrez, GenBank Report, Accession No. X80925, from Karayiannis, P. (December 1995)				

EXAMINER <i>msch</i>	DATE CONSIDERED <i>1-5-06</i>
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	AN						Yes No
	AO						Yes No
	AP						Yes No

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MM	AR	108	NCBI Entrez, GenBank Report, Accession No. AAC50341, from Yao, Z., et al. (January 1996)				
	AS	108	NCBI Entrez, GenBank Report, Accession No. X72702, from Preisler-Adams, S., et al. (February 1996)				
	AT	108	NCBI Entrez, GenBank Report, Accession No. VCBPR7, from Weber, K., et al. (April 1996)				

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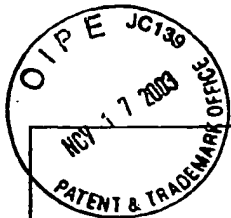
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MM ↓	AR	109	NCBI Entrez, GenBank Report, Accession No. 1604193A, from Gomez, F., et al. (October 1996)
	AS	109	NCBI Entrez, GenBank Report, Accession No. B56338, from Hoffman, D.R. (May 1997)
	AT	109	NCBI Entrez, GenBank Report, Accession No. U95551, from Rao, B.S., et al. (June 1997)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM ↓	AR	<u>110</u>	NCBI Entrez, GenBank Report, Accession No. S14764, from Vandermeers, A., et al. (October 1997)
	AS	<u>110</u>	NCBI Entrez, GenBank Report, Accession No. P03611, from Weber, K., et al. (November 1997)
	AT	<u>110</u>	NCBI Entrez, GenBank Report, Accession No. AAC14699, from Beekwilder, M.J., et al. (April 1998)

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	AN						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM ↓	AR	111	NCBI Entrez, GenBank Report, Accession No. AAC14704, from Beekwilder, M.J., et al. (April 1998)
	AS	111	NCBI Entrez, GenBank Report, Accession No. AF043593, from Gunther, S., et al. (May 1998)
	AT	111	NCBI Entrez, GenBank Report, Accession No. 1POC, from Scott, D.L., et al. (September 1998)

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	112	NCBI Entrez, GenBank Report, Accession No. CAA30374, from Inokuchi, Y., et al. (February 1999)
	AS	112	NCBI Entrez, GenBank Report, Accession No. X02496, from Bichko, V., et al. (April 1999)
	AT	112	NCBI Entrez, GenBank Report, Accession No. MFIV62, from Cox, N.J., et al. (July 1999)

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DATE CONSIDERED

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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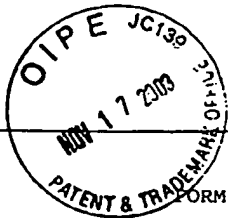
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	113	NCBI Entrez, GenBank Report, Accession No. VCBPFR, from Wittmann-Liebold, B., et al. (July 1999)				
	AS	113	NCBI Entrez, GenBank Report, Accession No. A59055, from Hoffman, D.R., and Schmidt, J.O. (August 1999)				
	AT	113	NCBI Entrez, GenBank Report, Accession No. B59055, from Hoffman, D.R., and Schmidt, J.O. (August 1999)				

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	AP						Yes No

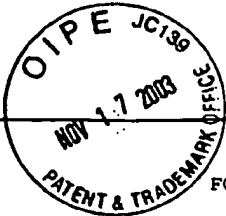
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MM ↓	AR	114	NCBI Entrez, GenBank Report, Accession No. AF051814, from Boyd, E.F., and Hartl, D.L. (September 1999)
	AS	114	NCBI Entrez, GenBank Report, Accession No. AF051815, from Boyd, E.F., and Hartl, D.L. (September 1999)
	AT	114	NCBI Entrez, GenBank Report, Accession No. AF110999, from Chang, S.F., et al. (October 1999)

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	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	115	NCBI Entrez, GenBank Report, Accession No. AB033559, from Okamoto, H., et al. (October 1999)
	AS	115	NCBI Entrez, GenBank Report, Accession No. AB010289, from Koseki, T., et al. (December 1999)
	AT	115	NCBI Entrez, GenBank Report, Accession No. AJ132364, from Graupner, S., et al. (April 2000)

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	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	116	NCBI Entrez, GenBank Report, Accession No. AF237482, from Johnson, J.R., et al. (May 2000)
	AS	116	NCBI Entrez, GenBank Report, Accession No. M32138, from Tong, S.P., et al. (July 2000)
	AT	116	NCBI Entrez, GenBank Report, Accession No. AF229646, from Skerker, J.M., and Shapiro, L. (August 2000)

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MM	AR	117	NCBI Entrez, GenBank Report, Accession No. M95589, from Shi, H., et al. (January 2001)				
	AS	117	NCBI Entrez, GenBank Report, Accession No. VCBPM2, from Min Jou, W., et al. (January 2001)				
	AT	117	NCBI Entrez, GenBank Report, Accession No. AF323080, from Steppan, C.M., et al. (January 2001)				

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	AP						Yes No

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MM	AR	118	NCBI Entrez, GenBank Report, Accession No. AF323081, from Steppan, C.M., et al. (January 2001)				
	AS	118	NCBI Entrez, GenBank Report, Accession No. U14003, from Plunkett, G., III, et al. (January 2001)				
	AT	118	NCBI Entrez, GenBank Report, Accession No. AF121239, from Hannoun, C., et al. (February 2001)				

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1-5-05

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
MM ↓	AR	119	NCBI Entrez, GenBank Report, Accession No. AF121240, from Hannoun, C., et al. (February 2001)
	AS	119	NCBI Entrez, GenBank Report, Accession No. AF121242, from Hannoun, C., et al. (February 2001)
↓	AT	119	NCBI Entrez, GenBank Report, Accession No. X59795, from Lai, M.E., et al. (March 2001)

EXAMINER	DATE CONSIDERED
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	120	NCBI Entrez, GenBank Report, Accession No. X65257, from Lai, M.E., et al. (March 2001)
	AS	120	NCBI Entrez, GenBank Report, Accession No. X65258, from Lai, M.E., et al. (March 2001)
	AT	120	NCBI Entrez, GenBank Report, Accession No. AF151735, from Gerner, P., et al. (April 2001)

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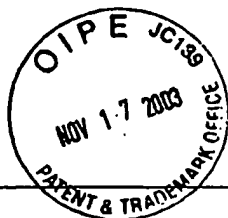
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MM	AR	121	NCBI Entrez, GenBank Report, Accession No. AJ000636, from Gousset, N., et al. (November 2001)
	AS	121	NCBI Entrez, GenBank Report, Accession No. AAB59424, from Kenten, J.H., et al. (February 2002)
	AT	121	NCBI Entrez, GenBank Report, Accession No. AAC06250, from Beekwilder, M.J., et al. (March 2002)

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	AP						Yes No

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MM ↓	AR	122	NCBI Entrez, GenBank Report, Accession No. L09137, from Yanisch-Perron, C., et al. (May 2002)
	AS	122	NCBI Entrez, GenBank Report, Accession No. 009006, from Hromas, R., et al. (June 2002)
	AT	122	NCBI Entrez, GenBank Report, Accession No. P40224, from Nagasawa, T., et al. (June 2002)
EXAMINER <i>msch</i>			DATE CONSIDERED <i>1-5-05</i>

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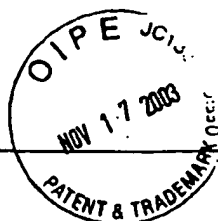
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MM ↓	AR	123	NCBI Entrez, GenBank Report, Accession No. P34884, from Bernhagen, J., et al. (June 2002)
	AS	123	NCBI Entrez, GenBank Report, Accession No. P06821, from Winter, G., et al. (June 2002)
	AT	123	NCBI Entrez, GenBank Report, Accession No. P30904, from Sakai, M., et al. (June 2002)
EXAMINER <i>msd</i> DATE CONSIDERED 1-5-05			

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	AN						Yes No
	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM ↓	AR	<u>124</u>	NCBI Entrez, GenBank Report, Accession No. NP_040754, from Inokuchi, Y., et al. (June 2003)
	AS	<u>124</u>	NCBI Entrez, GenBank Report, Accession No. NP_061354, from Ishikawa, S., et al. (September 2003)
	AT	<u>124</u>	NCBI Entrez, GenBank Report, Accession No. NP_031804, from Lenda, D.M., et al. (September 2003)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	125	NCBI Entrez, GenBank Report, Accession No. NP_006410, from Luther, S.A., et al. (September 2003)
	AS	125	NCBI Entrez, GenBank Report, Accession No. NP_000748, from Yao, G.Q., et al. (September 2003)
	AT	125	NCBI Entrez, GenBank Report, Accession No. P03069, from Hinnebusch, A.G., et al. (September 2003)

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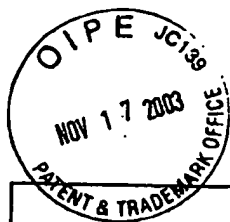
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MM	AR	126	NCBI Entrez, GenBank Report, Accession No. 000585, from Hromas, R., et al. (September 2003)
	AS	126	NCBI Entrez, GenBank Report, Accession No. P14174, from Weiser, W.Y., et al. (September 2003)
	AT	126	NCBI Entrez, GenBank Report, Accession No. P48061, from Spotila, L.D., et al. (September 2003)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM ↓	AR	<u>127</u>	NCBI Entrez, GenBank Report, Accession No. P80001, from Vandermeers, A., et al. (September 2003)
	AS	<u>127</u>	Swiss-Prot/TrEMBL, TN11_Mouse, Primary Accession No. O35235, entered in Swiss-Prot in October 2001
	AT	<u>127</u>	Swiss-Prot/TrEMBL, TN11_Human, Primary Accession No. O14788, entered in Swiss-Prot in October 2001

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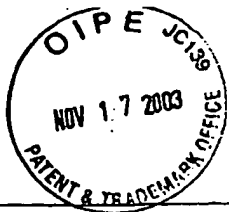
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM ↓	AR	128	Copy of co-pending U.S. application 10/264,267, inventors Bachmann, M., filed October 4, 2002 (NOT PUBLISHED)
	AS	128	Copy of co-pending U.S. application 10/289,456, inventors Bachmann et al., filed November 7, 2002 (NOT PUBLISHED)
	AT	128	Copy of co-pending U.S. application 10/617,876, inventors Bachmann et al., filed July 14, 2003 (NOT PUBLISHED)

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1645INFORMATION DISCLOSURE STATEMENT

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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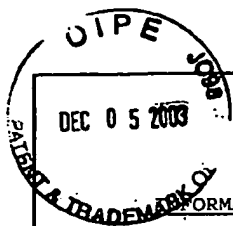
FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	129	Copy of co-pending U.S. application 10/346,190, inventors Bachmann et al., filed January 17, 2003 (NOT PUBLISHED)
	AS	129	Copy of co-pending U.S. application 10/622,087, inventors Bachmann et al., filed July 18, 2003 (NOT PUBLISHED)
	AT	129	Copy of co-pending U.S. application 10/622,124, inventors Bachmann et al., filed July 18, 2003 (NOT PUBLISHED)
EXAMINER <i>mslu</i>			DATE CONSIDERED <i>1-5-05</i>

EXAMINER: Initial if reference considered; whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449 SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1700.0300001/BJD/SJE	APPLICATION NO. 10/622,064
	APPLICANT BACHMANN et al.	
	FILING DATE July 18, 2003	GROUP 1645

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC4	2002/0064529 A1	05/30/2002	Bohannon			11/28/2001
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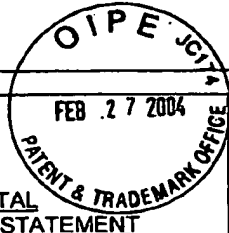
FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO9	WO 96/30049 A2 WO 96/30049 A3	10/03/1996 03/06/1997	WIPO WIPO			Yes No
							Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	145	Milich, D.R., et al., "The Hepatitis B Virus Core and e Antigens Elicit Different Th Cell Subsets: Antigen Structure Can Affect Th Cell Phenotype," J. Virol. 71:2192-2201, American Society for Microbiology (1997)
	AS	145	Milich, D.R., et al., "The Hepatitis Nucleocapsid as a Vaccine Carrier Moiety," Ann. N.Y. Acad. Sci. 754:187-201, New York Academy of Sciences (1995)
	AT	145	"Annex to Form PCT/ISA/206. Communication Relating to the Results of the Partial International Search for PCT/EP03/07850," 3 pages, European Patent Office, The Netherlands (mailed November 6, 2003)

EXAMINER MARY E. MOSHER PRIMARY EXAMINER	DATE CONSIDERED 1-5-05
EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	



FORM PTO-1449		Page 1 of 2	
THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 1700.0300001/BJD/SJE	APPLICATION NO. 10/622,064
		FIRST NAMED INVENTOR Martin F. Bachmann	
		FILING DATE July 18, 2003	ART UNIT 1648

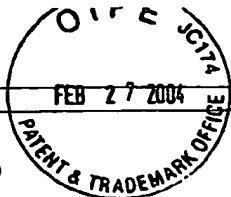
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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	AM						Yes N
	AN						Yes N
	AO						Yes No
MM	AP9	WO 99/40934 A	08/19/1999	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
↑	AR	146	International Search Report for International Application No. PCT/EP03/07850, mailed November 11, 2003, International Search Authority, European Patent Office, The Netherlands.
	AS	146	Curtiss, L. K., et al., "The relative immunodominance of haptenic determinants on a compl x hapten phage conjugate," <i>Immunochemistry</i> 12:949-957, Pergamon Press, Great Britain (December 1975).
↓	AT	146	Lechner, F., et al., "Virus-like particles as a modular system for novel vaccines," <i>Intervirology</i> 45:212-217, S. Karger AG, Basel (July-December 2002).

EXAMINER	DATE CONSIDERED
MARY E MOSHER	1-5-05
EXAMINER: Initial if reference considered in whole or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	

GROUP 1800



FORM PTO-1449		Page 2 of 2	
THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 1700.0300001/BJD/SJE	APPLICATION NO. 10/622,064
		FIRST NAMED INVENTOR Martin F. Bachmann	
		FILING DATE July 18, 2003	ART UNIT 1648

U.S. PATENT DOCUMENTS							
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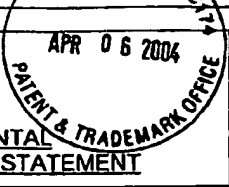
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	AN						Yes N
	AO						Yes No
	AP						Yes No

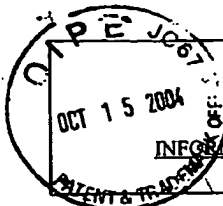
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
MM	AR	147	Pumpens, P., et al., "Evaluation of HBs, HBc, and frCP virus-like particles for expression of human papillomavirus 16 E7 oncoprotein epitopes," <i>Intervirology</i> 45:24-32, S. Karger AG, Basel (January 2002).
	AS		
	AT		

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if reference considered whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include date of communication to Applicant.	

MARY E MOSHER
PRIMARY EXAMINER

GROUP 1800

FORM PTO-1449 FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 1700.0300001/BJD/SJE FIRST NAMED INVENTOR Bachmann <i>et al.</i> FILING DATE July 18, 2003		APPLICATION NO. 10/622,064 ART UNIT 1645	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	AA	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AB						
	AC						
<i>MM</i>	AD4	6,699,474 B1	03/02/2004	Cerny			09/18/1997
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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	AM						Y s No
	AN						Yes No
	AO						Yes No
	AP						Y s No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR						
	AS						
	AT						
EXAMINER					DATE CONSIDERED		
MARY E. MOSHER PRIMARY EXAMINER GROUP 1800					<i>MM</i> 1-5-05		
EXAMINER: Initial if reference considered. Whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this (GROUP 1800) communication to Applicant.							



FORM PTO-1449

FIFTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0300001/BJD/SJEAPPLICATION NO.
10/622,064APPLICANT
Bachmann *et al.*
FILING DATE
July 18, 2003GROUP
1648

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
MM	AE4	2004/0076611 A1	04/22/2004	Bachmann <i>et al.</i>			07/14/2003
	AF4	2004/0136962 A1	07/15/2004	Renner <i>et al.</i>			12/12/2003
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
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	AM10	FR2695563	3/18/1994	France			Yes No X
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR			
AS	147	Nieland, J.D., <i>et al.</i> , "Chimeric papillomavirus virus-like particles induce a murine self-antigen-specific protective and therapeutic antitumor immune response," <i>J. Cell. Biochem.</i> 73:145-152, Wiley-Liss Inc. (1999)	
AT	147	Dialog File 351, Accession No. 1994-111516, unverified Derwent WPI English language abstract for FR2695563	

EXAMINER

DATE CONSIDERED

MARY E. MOSHER

1-5-05

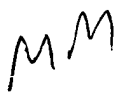

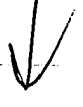
EXAMINER: I have considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

GROUP 1648

FORM PTO-1449 FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1700.0300001/BJD/SJE	APPLICATION NO. 10/622,064
	APPLICANT Bachmann <i>et al.</i>	
	FILING DATE July 18, 2003	GROUP 1648

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA						
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No




OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>148</u>	International Search Report for International Application No. PCT/IB01/00741, mailed March 5, 2002, International Searching Authority, European Patent Office, Netherlands.
	AS	<u>148</u>	International Search Report for International Application No. PCT/IB02/00166, mailed January 31, 2003, International Searching Authority, European Patent Office, Netherlands.
	AT	<u>148</u>	Copy of Office Action mailed June 6, 2001, for United States Patent Application No. 09/449,631, Renner <i>et al.</i> , filed November 30, 1999. (NOT FOR PUBLICATION)

EXAMINER MARY E. MOSHER	DATE CONSIDERED
EXAMINER'S CONSIDERATION: If the examiner has considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. GROUP 1648	

FORM PTO-1449 FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1700.0300001/BJD/SJE	APPLICATION NO. 10/622,064
	APPLICANT Bachmann <i>et al.</i>	
	FILING DATE July 18, 2003	GROUP 1648

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FOREIGN PATENT DOCUMENTS							
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	149	Copy of Office Action mailed February 27, 2002, for United States Patent Application No. 09/449,631, Renner <i>et al.</i> , filed November 30, 1999. (NOT FOR PUBLICATION)
	AS	149	Copy of Office Action mailed November 14, 2002, for United States Patent Application No. 09/449,631, Renner <i>et al.</i> , filed November 30, 1999. (NOT FOR PUBLICATION)
	AT	149	Copy of Office Action mailed March 1, 2004, for United States Patent Application No. 10/050,902, Renner <i>et al.</i> , filed January 18, 2002. (NOT FOR PUBLICATION)

EXAMINER MARY E. MOSHER	DATE CONSIDERED
EXAMINER INITIALS: GROUP 1648	
EXAMINER: GROUP 1648	

EXAMINER: **GROUP 1648** Please consider, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Copy of this form with next communication to Applicant.

FORM PTO-1449 FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1700.0300001/BJD/SJE	APPLICATION NO. 10/622,064
	APPLICANT Bachmann <i>et al.</i>	
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
MM	AR	150	Print out of Xenova Group PLC web page, www.xenova.co.uk/t_addiction.html ; accessed October 8, 2004
↓	AS	150	Print out of Xenova Group PLC web page, www.xenova.co.uk/dc_ta_nic.html ; accessed October 8, 2004
	AT	150	Print out of Xenova Group PLC web page, www.xenova.co.uk/dc_ta_cd.html ; accessed October 8, 2004

EXAMINER MARY E. MOSHER PRIMARY EXAMINER	DATE CONSIDERED
EXAMINER, I hereby certify that I have considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	

GROUP 1648

FORM PTO-1449 FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1700.0300001/BJD/SJE	APPLICATION NO. 10/622,064
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	AN						Yes No
	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
MM	AR	151	Press release by Xenova Group PLC, accessed at www.xenova.co.uk/PressReleases/pr_20040614_01.html ; June 14, 2004
↓	AS	151	Press release by Xenova Group PLC, accessed at www.xenova.co.uk/PressReleases/pr_20040714_01.html ; July 14, 2004
	AT		

EXAMINER	DATE CONSIDERED
MARY E. MOSHER	
EXAMINER (initial) if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	
GROUP 1800	